

**A-9**      Effect of Growth Factors on The Mitogenic Activity of Periodontal Ligament Cell

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The purpose of the present study was to evaluate the effect of platelet-derived growth factor(PDGF)-BB and insulin-like growth factor(IGF)-1, Centella Asiatica, and Zea Mays L. on the mitogenic activity of PDL cells from healthy and RPP patients.

We treated combination of PDGF-BB and IGF-1, Centella Asiatica, and Zea Mays L. on PDL cells and the mitogenic effects were measured by quantitative assay of methyl-<sup>3</sup>H-thymidine incorporation during DNA synthesis.

Combination of PDGF-BB and IGF-1 enhanced the mitogenic effects of both healthy and RPP PDL cells, however, the effect was less pronounced on RPP PDL cells. In cases of Centella Asiatica and Zea Mays L., we could not see any mitogenic effect on healthy PDL cells.